

FIGURE 1A

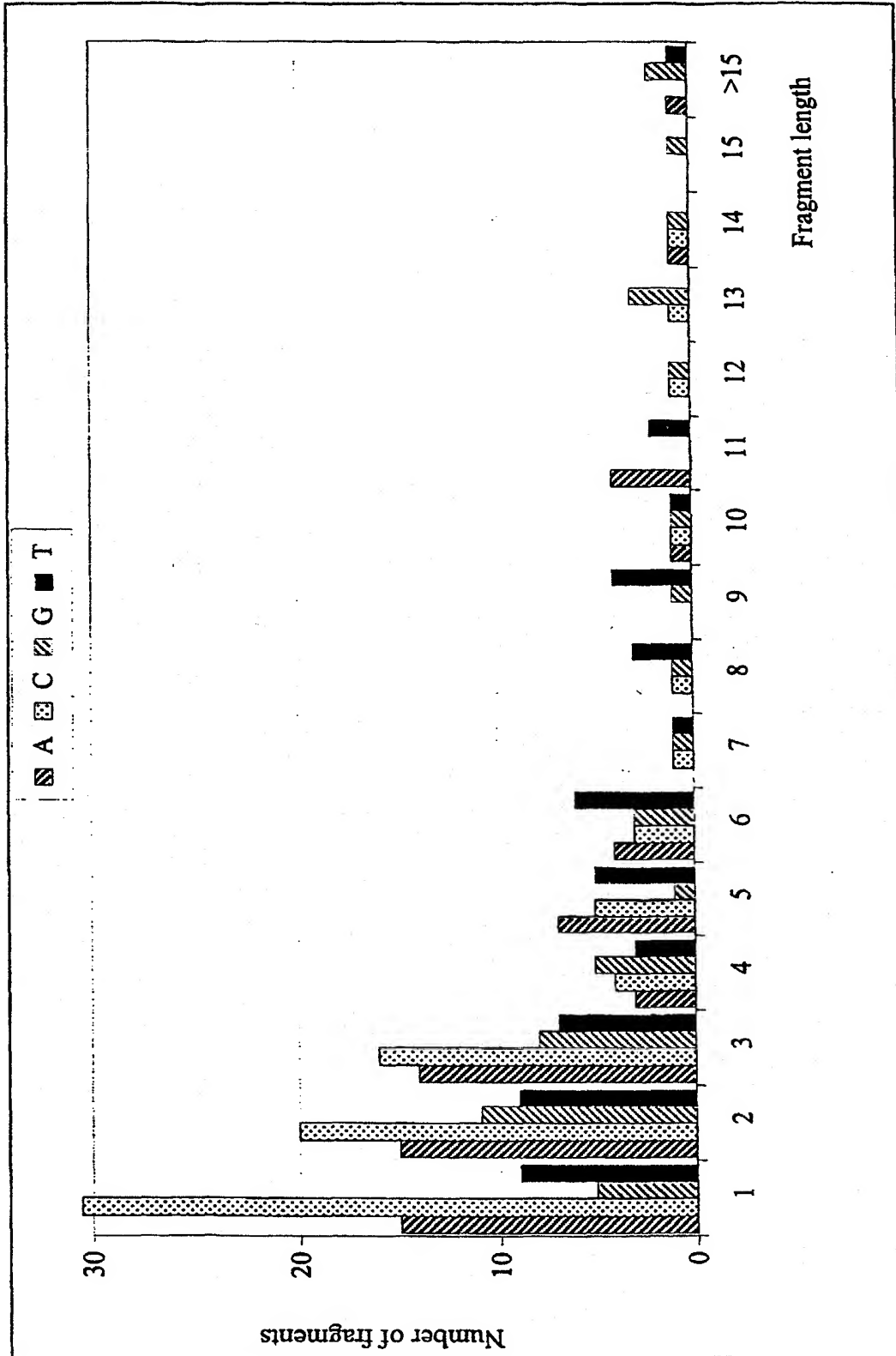


FIGURE 1B

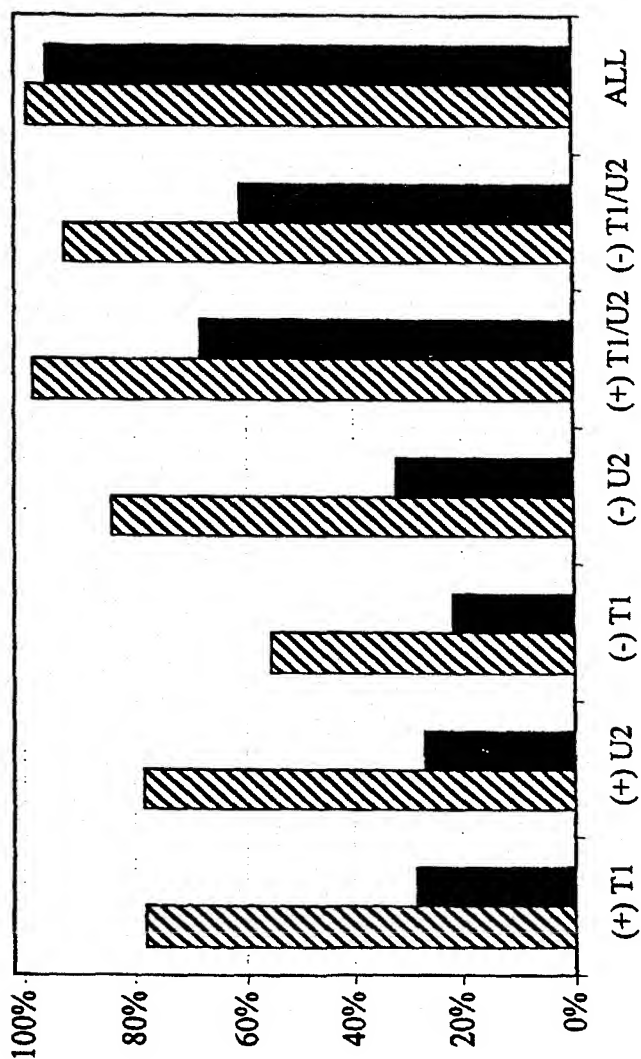


FIGURE 2

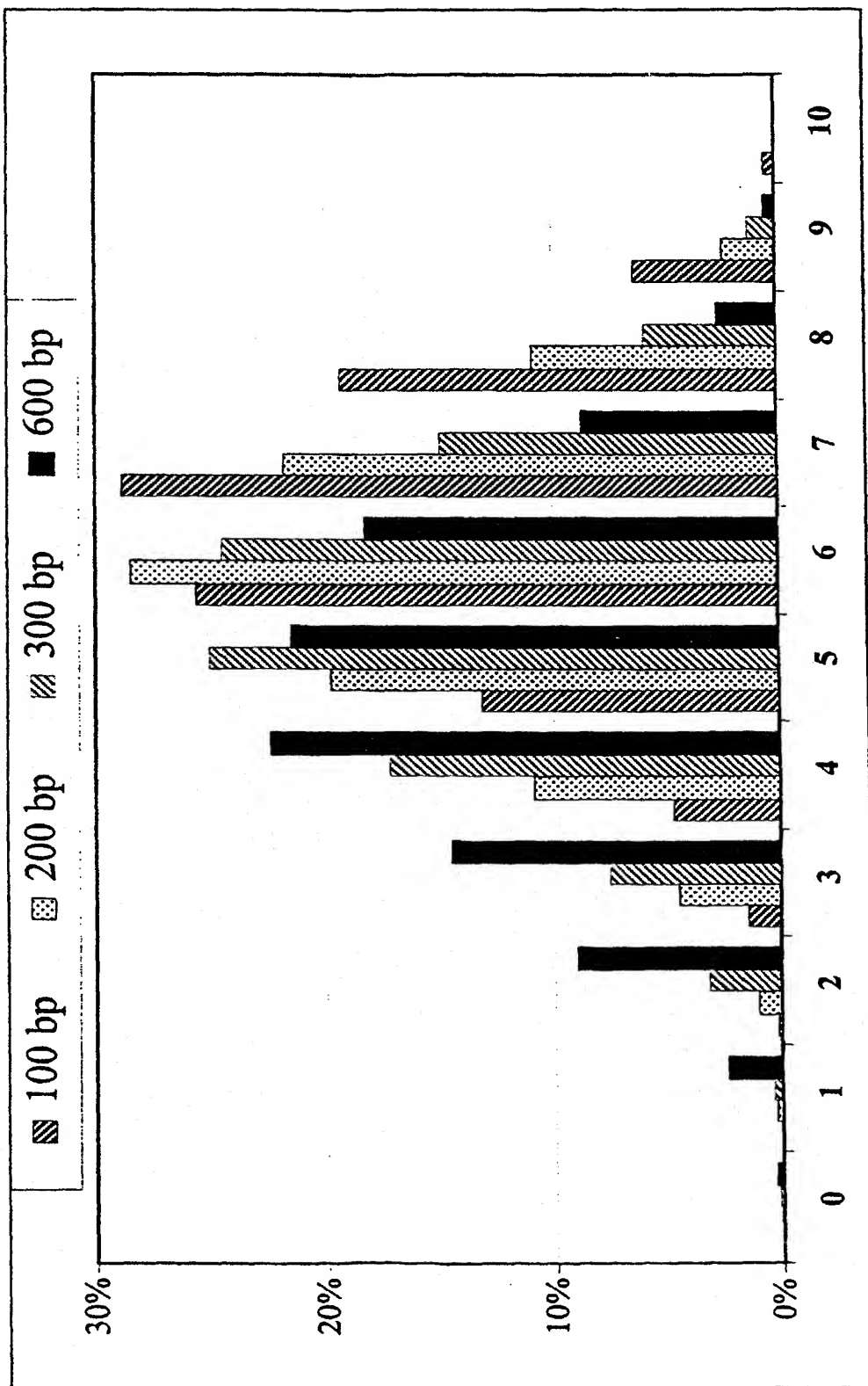


FIGURE 3

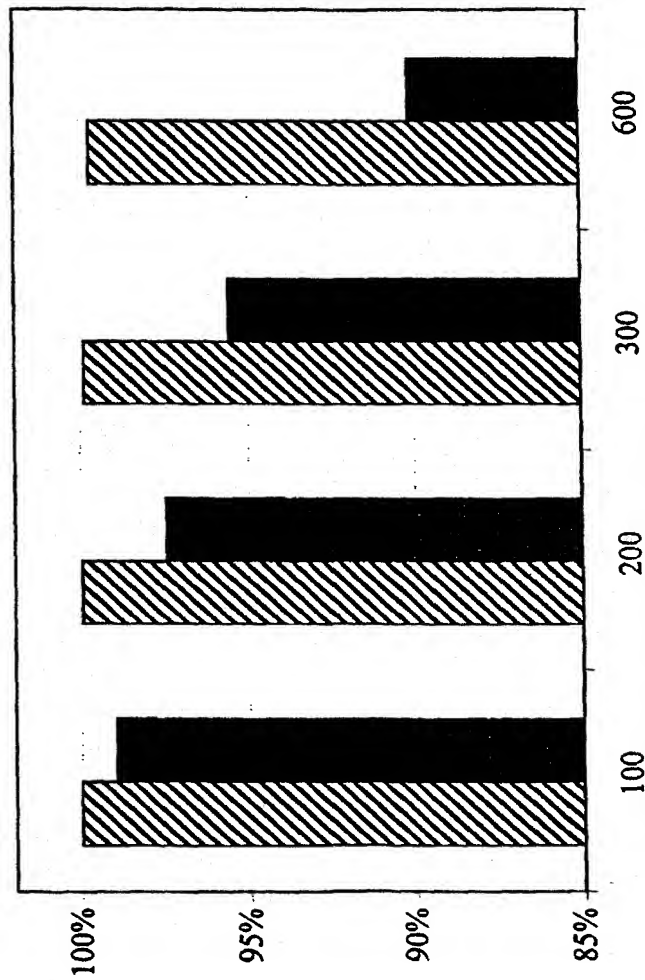


FIGURE 4

-> GTAAACGAC GGCCAGTGAA TTGTAATACG ACTCACTATA (SEQ ID NO: 2)

GGCGGAATTC GAGCTCGGTA CCCGGGGATC CTC TAGAGTC GACCTGCAGG 100
CATGCAAGCT TGAGTATTCT ATAGTGTAC CTAATAGCT TGGCGTAATC (118)
ATGGTCATAG CTGTTTCCG TGTGAAATTG TTATCCGCTC ACAATTCCAC 200
ACAACATACG AGCCGGAAGC ATAAAGTGA AAGCCTGGG TGCCTAATGA 300
GTGAGCTAAC TCACATTAAAT TGGGTTGCGC TCACCTGCCG CTTTCCAGTC 400
GGGAAACCTG TCGTGCCAGC TGCATTAAAG AATCGGCCAA CGCGCGGGGA 500
GAGGCGGTTT GCGTATTGGG CGCTCTTTCCG CTTCCCTCGCT CACTGACTCG 600
CTGCGCTCGG TCGTTCGGCT GCGGCGAGCG GTATCAGCTC ACTCAAAGGC 700
GGTAATACGG TTATCCACAG AATCAGGGGA TAACGCAGGA AAGAACATGT 800
GAGCAAAAGG CCAGCAAAAG GCCAGGAACC GTAAAAAGGC CGCGTTGCTG 900
GCGTTTTTCC ATAGGCTCCG CCCCCCTGAC GAGCATCACA AAAATCGACG
CTCAAGTCAG AGGTGGCGAA ACCCGACAGG ACTATAAGA TACCAGGCGT
TTCCCCCTGG AAGCTCCCTC GTGCGCTCTC CTGTTCCGAC CTTGCCGCTT
ACCGGATACC TGTCCGCCTT TCTCCCTTCG GGAAGCGTGG CGCTTTCACA
TAGCTCACGC TGTAGGTATC TCAGTTCGGT GTAGGTCGTT CGCTCCAAGC
TGGGCTGTGT GCACGAACCC CCGTTTCAGC CCGACCGCTG CGCCTTATCC
GGTAACTATC GTCTTGAGTC CAACCCGGTA AGACACGACT TATCGCCACT
GGCAGCAGCC ACTGGAACA GGATTAGCAG AGCGAGGTAT GTAGGCGGTG
CTACAGAGTT CTTGAAGTGG TGGCCTAACT ACGGCTACAC TAGAAGAACA
GTATTGGTA TCTGGGCTCT GC (SEQ ID NO: 3) (972)

FIGURE 5

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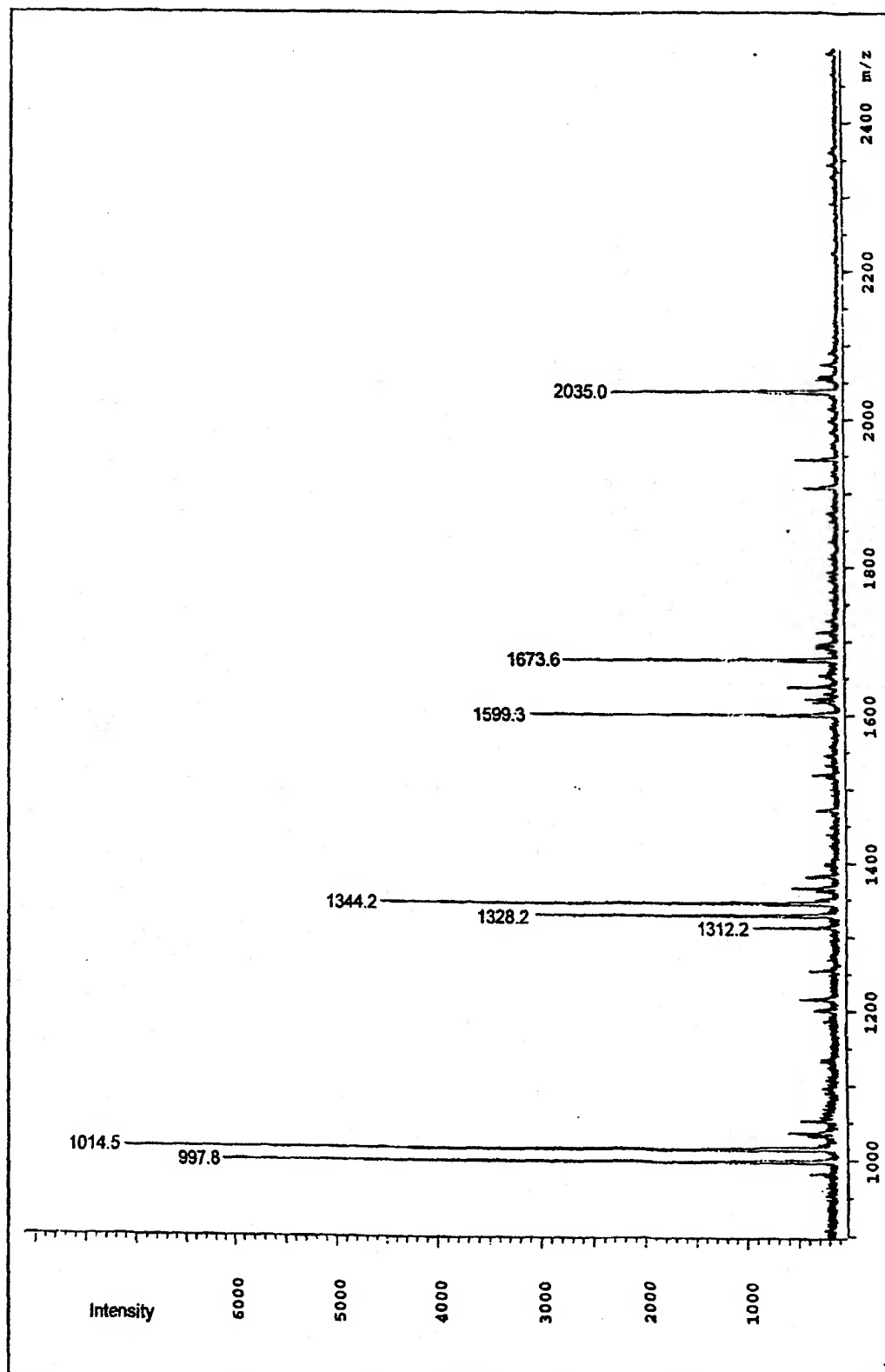


FIGURE 6A

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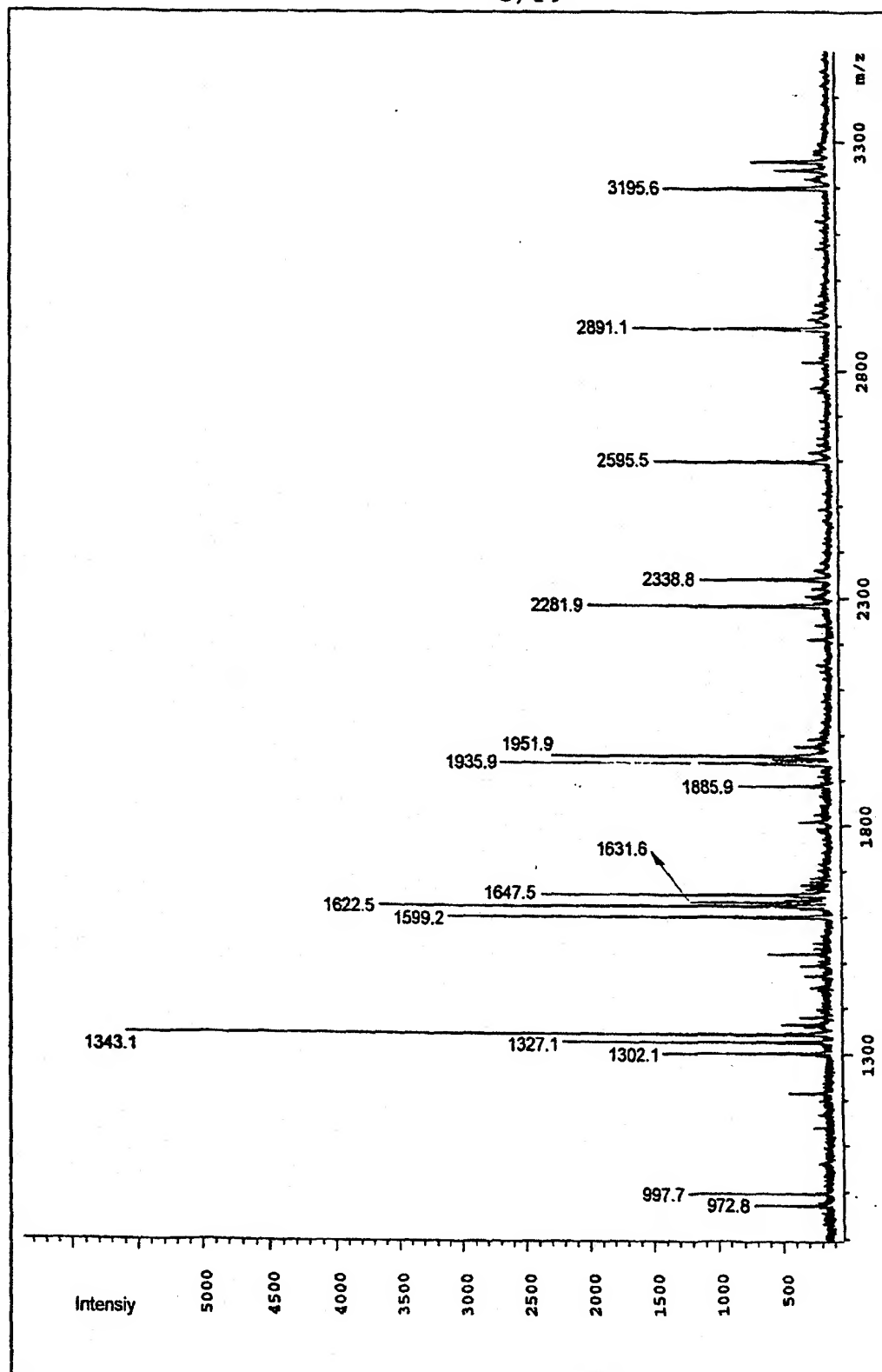


FIGURE 6B

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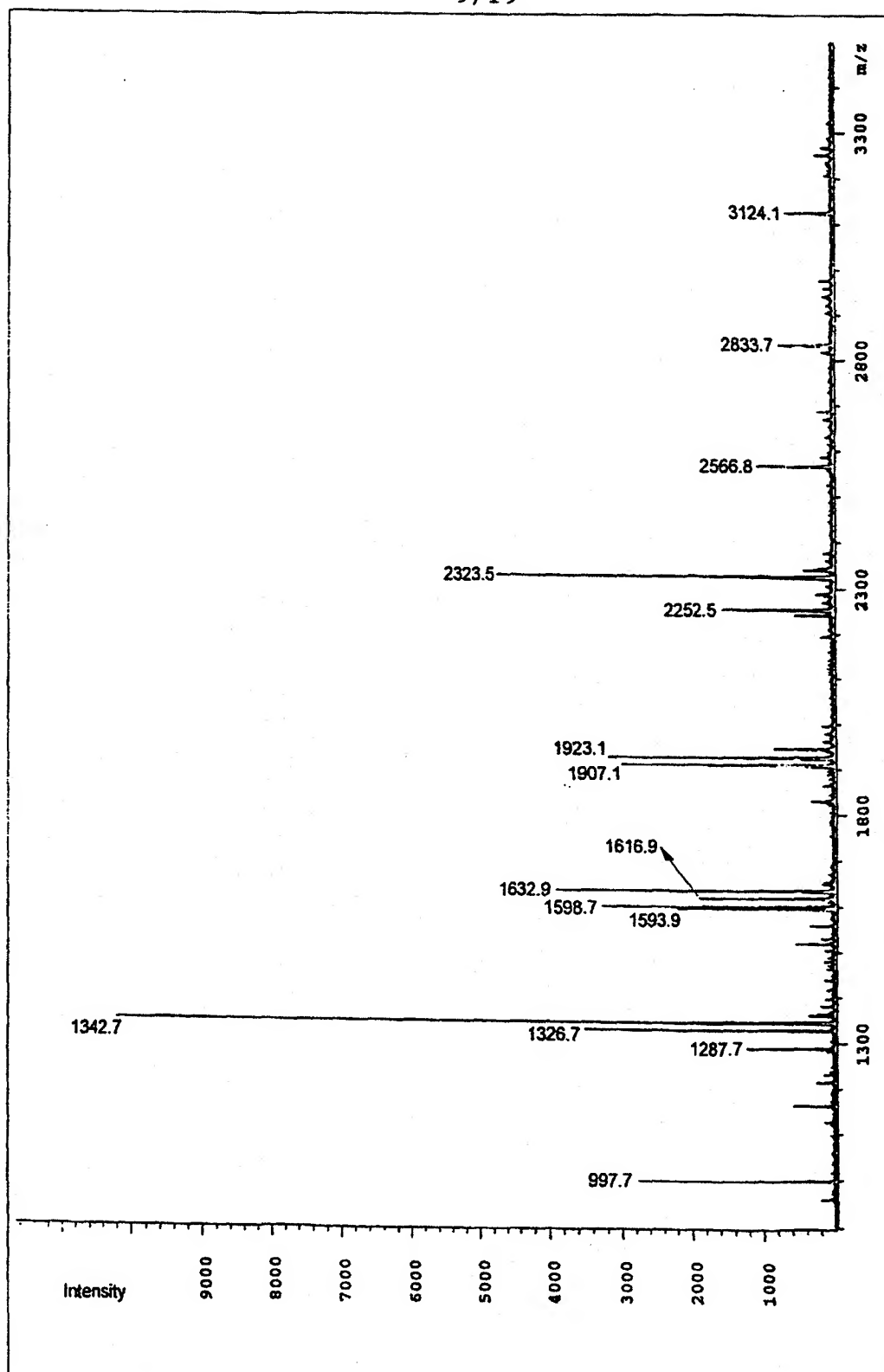


FIGURE 6C

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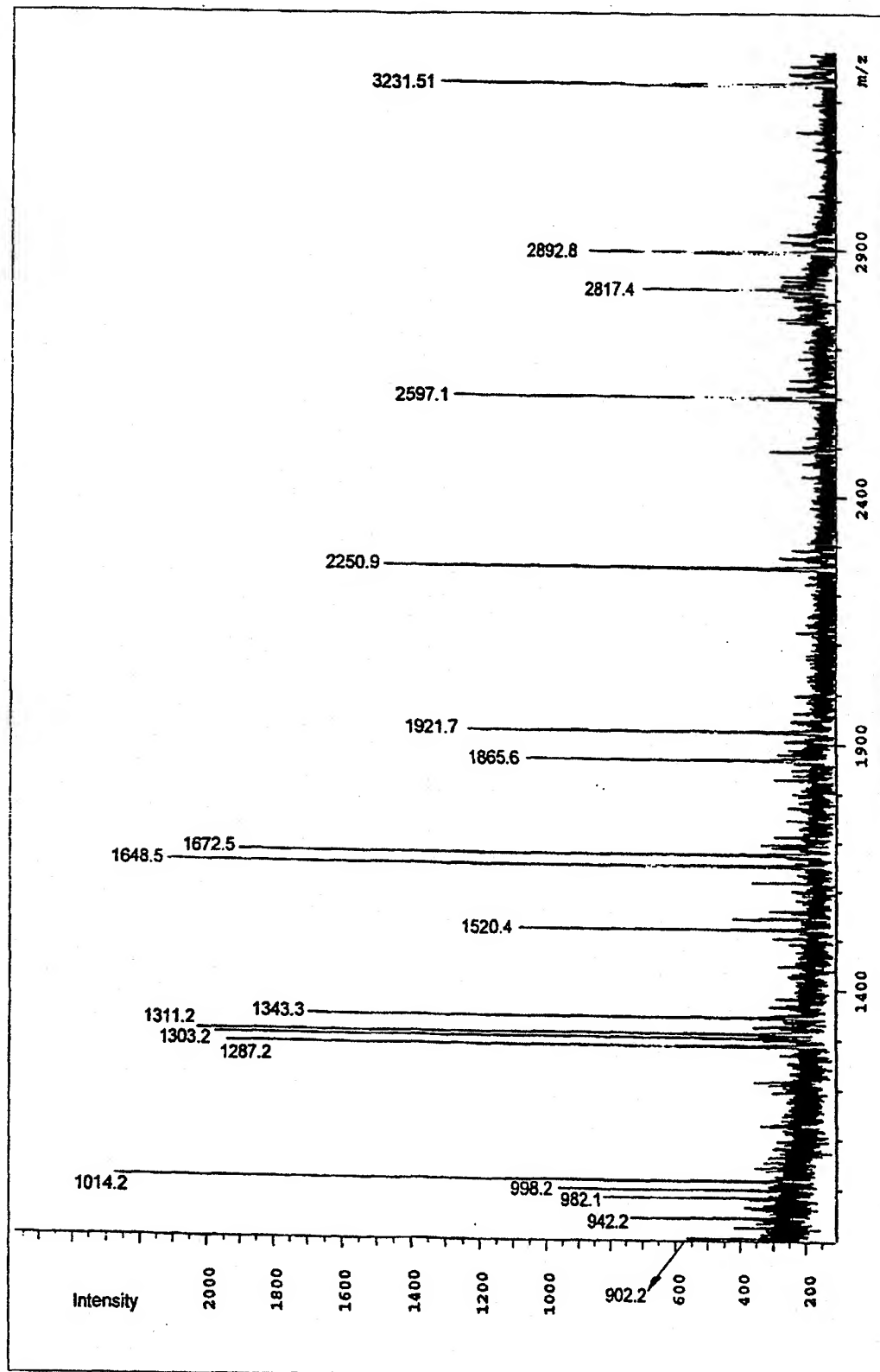


FIGURE 6D

->
TAATACGACT CACTATAGGG CGACTTCACG AAGACGGTGA AACTGTTGGA TCCAATTCTT ACCCACAACA
 ATACAACAAC TACGAAGGTT TTGATTCTC TGTGAGCTCT CCTTACTACG AATGGCCTAT C (SEQ ID NO: 4)

->
TAATACGACT CACTATAGGG CGAATTCGTA GTAGGGAGAG CTCACAGAGA AATCAAAACC TTCGTAGTTG
 TTGTATTGT GTGGGTAAGA ATTGGATCCA ACAGTTTCAC CGTCTTCGTG AAGTTTATAT CCGG (SEQ ID NO: 5)

FIGURE 7A

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reference	GGA.TCC.AAT.TCT.TAC.CCA.CAC.AAA.TAC.AAC.AAC.TAC.GAA.GGT.TTT	(SEQ ID NO: 6)
mutant #1	GGA.TCC.AAT.TCT.TTC.CCA.CAC.AAA.TAC.AAC.AAC.TAC.GAA.GGT.TTT	(SEQ ID NO: 7)
mutant #2	GGA.TCC.AAT.TCT.TAC.CCA.CAC.AAA.TAC.AAC.AAG.TAC.GAA.GGT.TTT	(SEQ ID NO: 8)
mutant #3	GGA.TCC.AAT.TCT.TAC.CCA.CAC.AAA.TAC.AAC.AAC.TAC.GAA.GGT.TTT	(SEQ ID NO: 9)
mutant #4	GGA.TCC.AAT.TCT.TAC.CCA.CAC.AAA.TAC.AAC.AAC.TAC.GTA.GGT.TTT	(SEQ ID NO: 10)
mutant #5	GGA.TCC.AAT.TCT.TAC.CCA.CAC.AAA.TAC.AAC.AAG.TAC.GAA.GGT.TTT	(SEQ ID NO: 11)
mutant #6	GGA.TCC.AAT.TCT.TAC.CCA.CAC.AAG.TAC.AAC.AAC.TAC.GAA.GGT.TTT	(SEQ ID NO: 12)
mutant #7	GGA.TCC.GGG.TCT.TAC.CCA.CAC.AAA.TAC.AAC.AAC.TAC.GAA.GGT.TTT	(SEQ ID NO: 13)
mutant #8	GGA.TCC.AAT.TCT.TAC.CCA.CAC.AAA.TAC.AAG.AAT.TTC.GAA.GGT.TTT	(SEQ ID NO: 14)

FIGURE 7B

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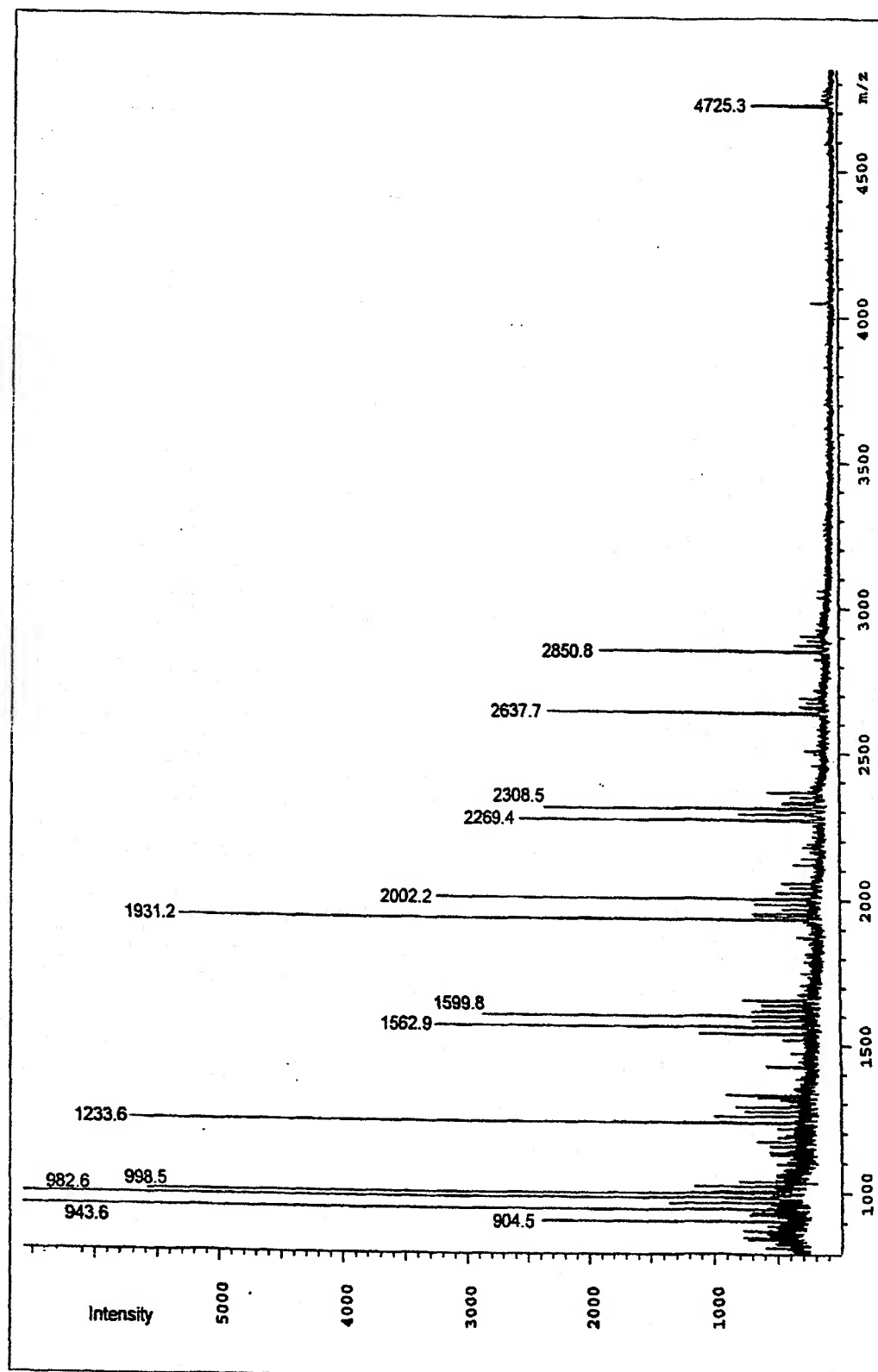


FIGURE 8A

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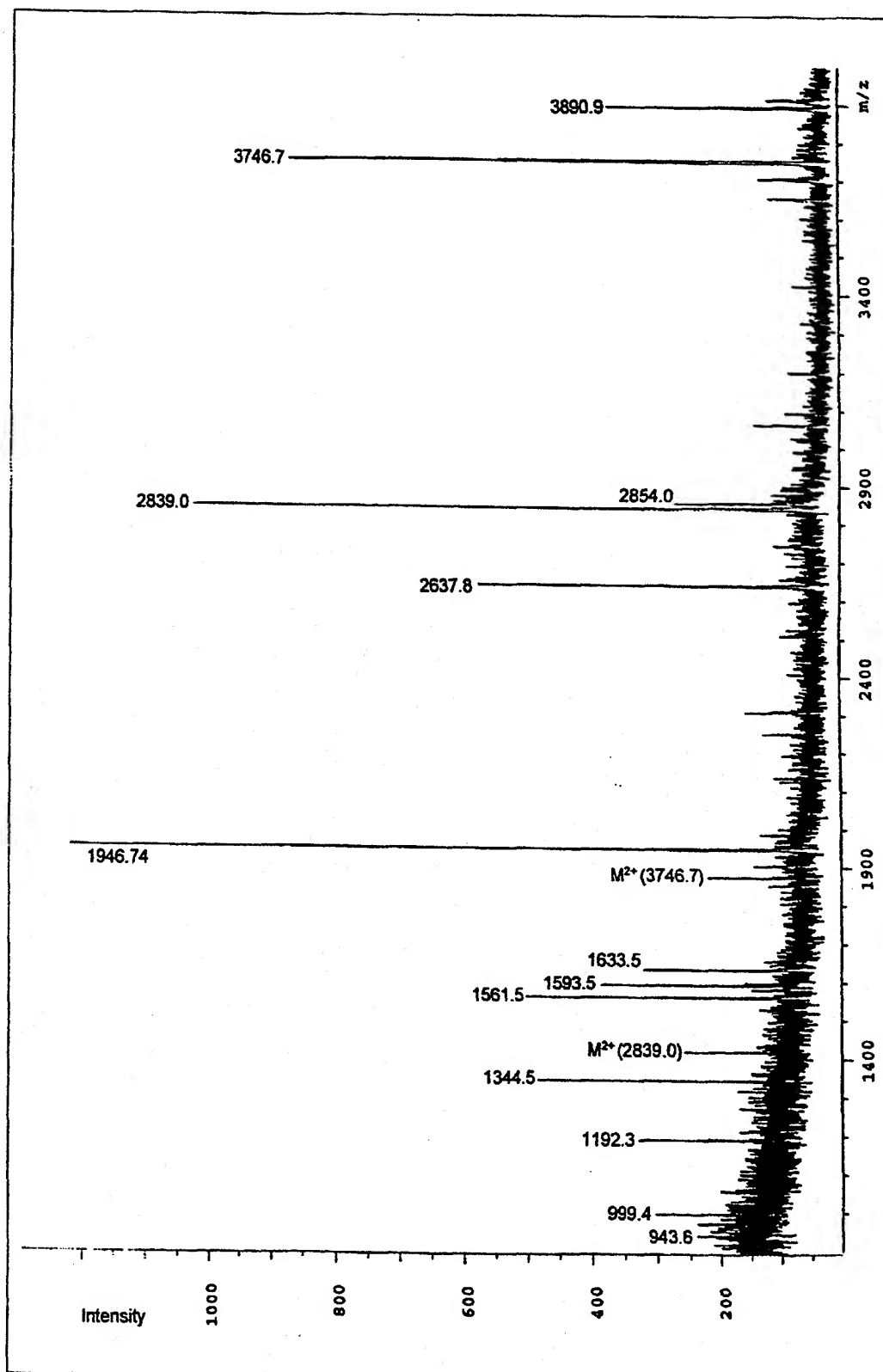


FIGURE 8B

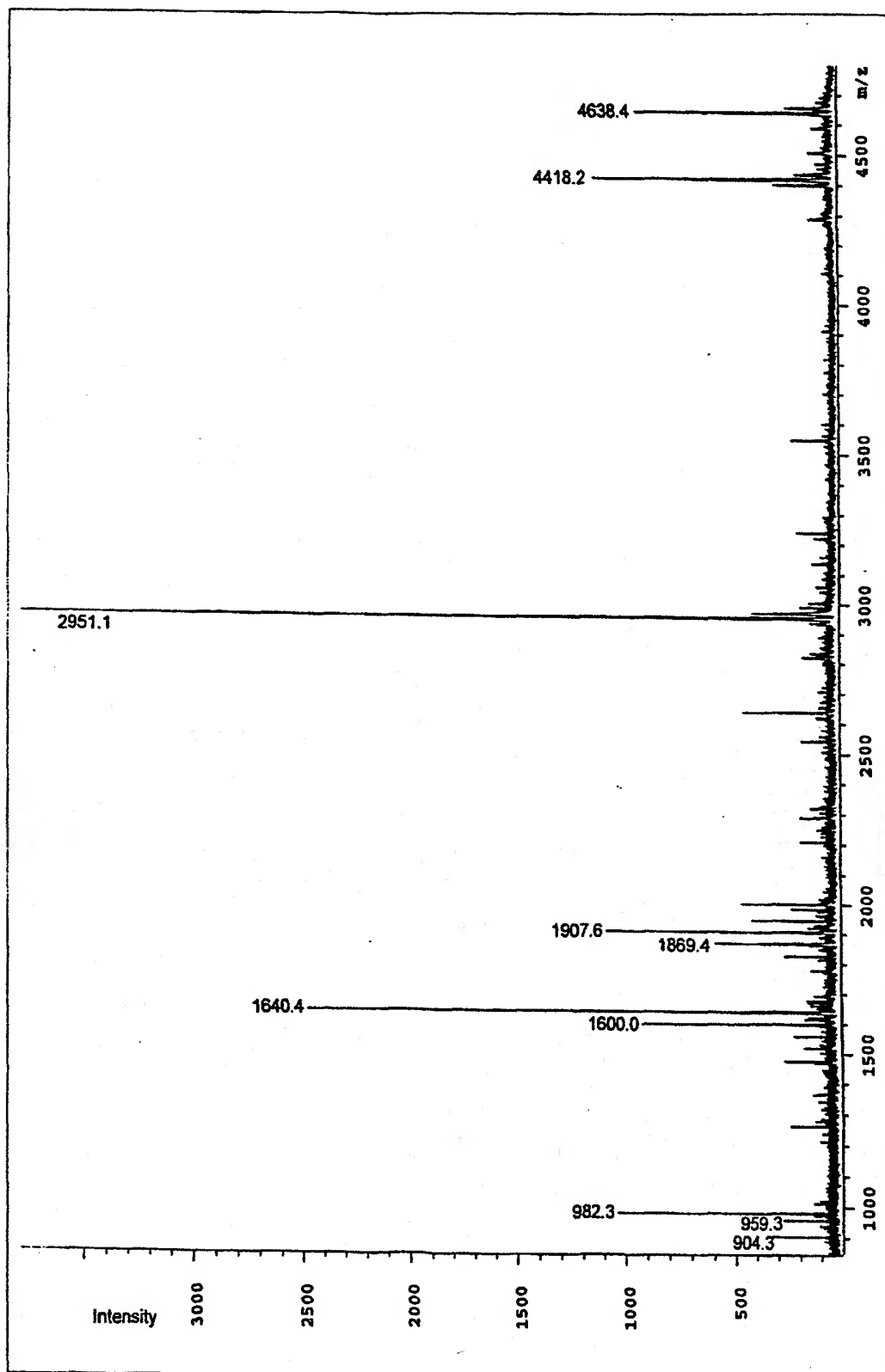


FIGURE 8C

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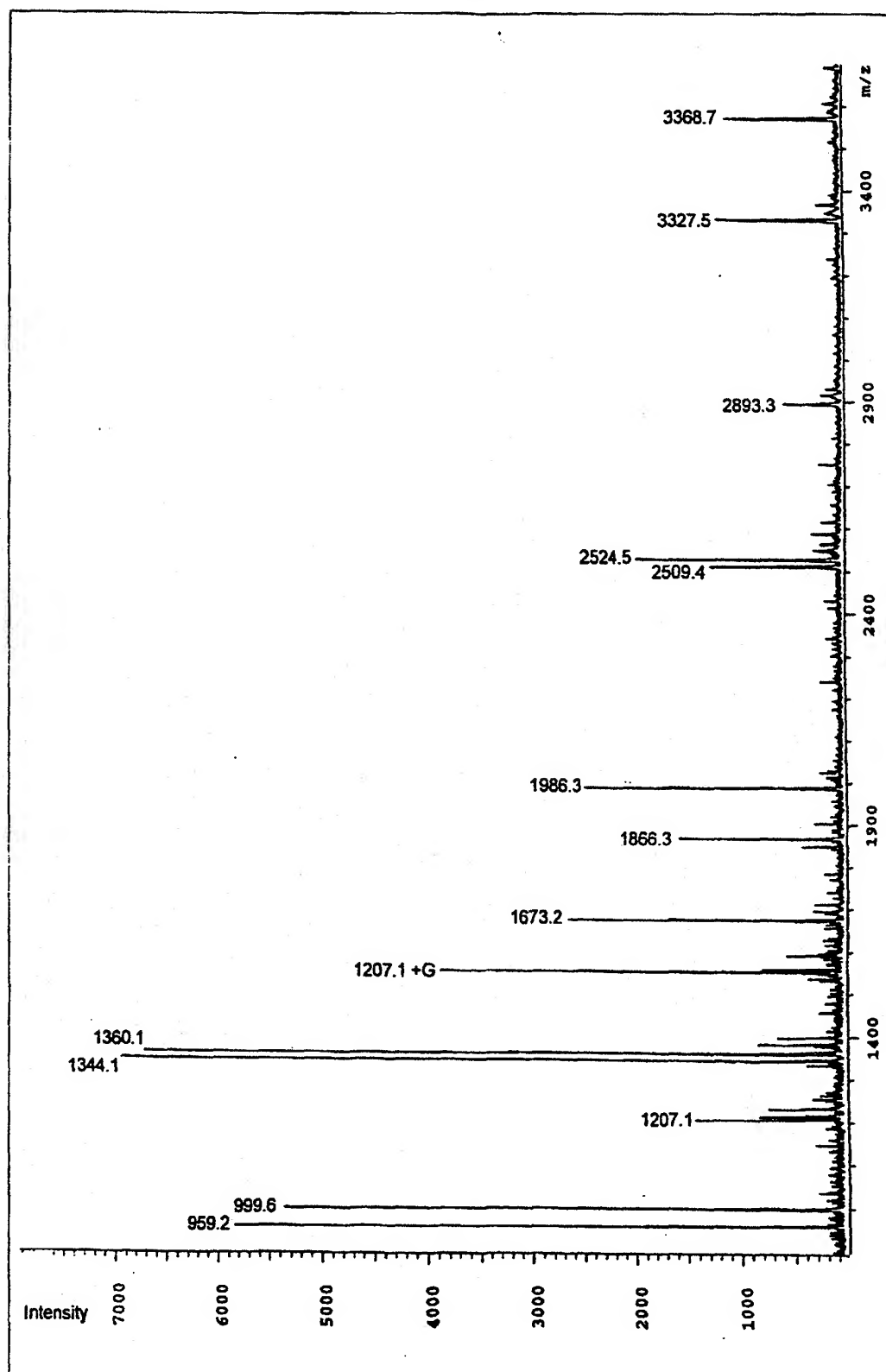


FIGURE 8D

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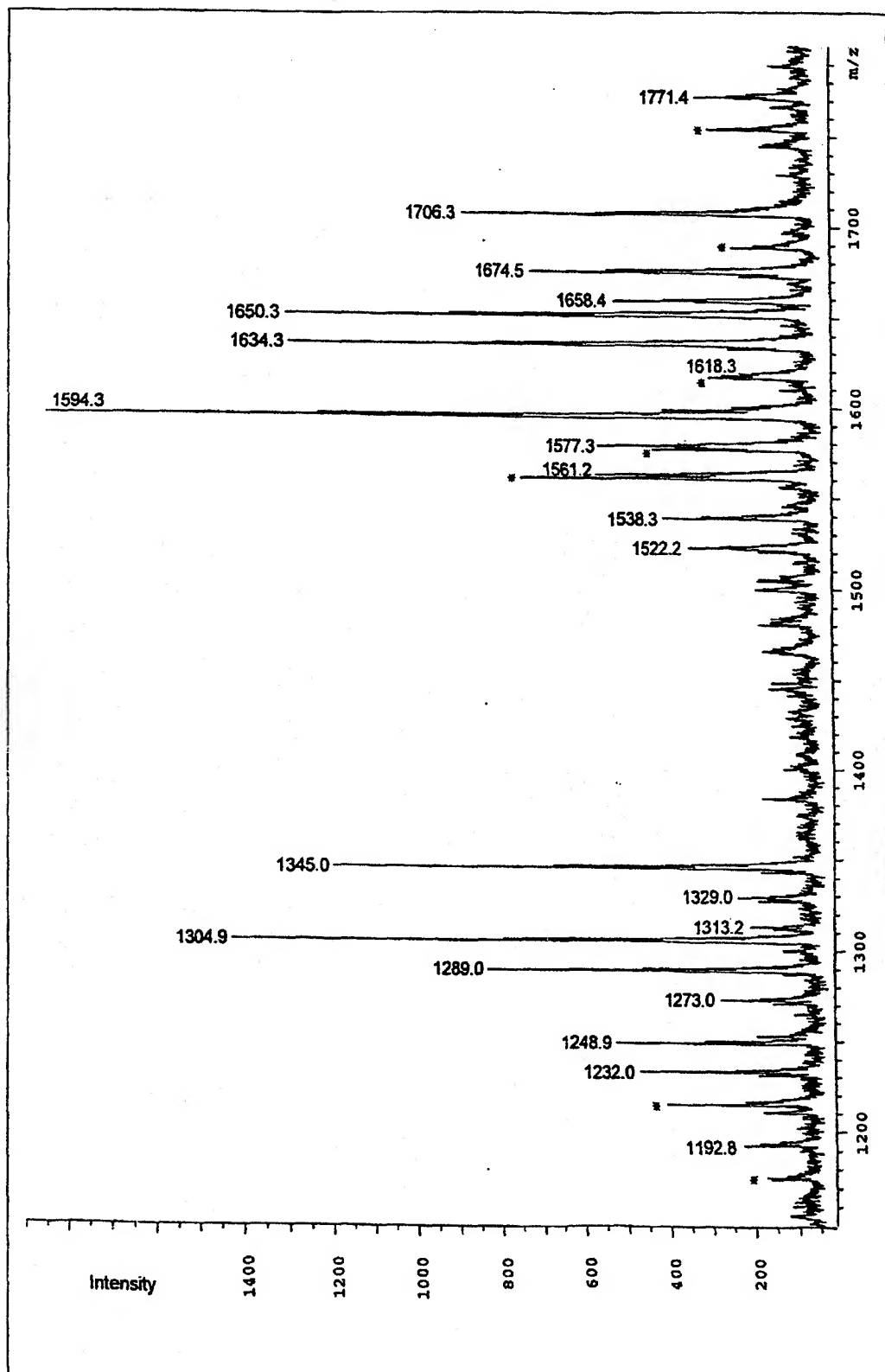


FIGURE 9A

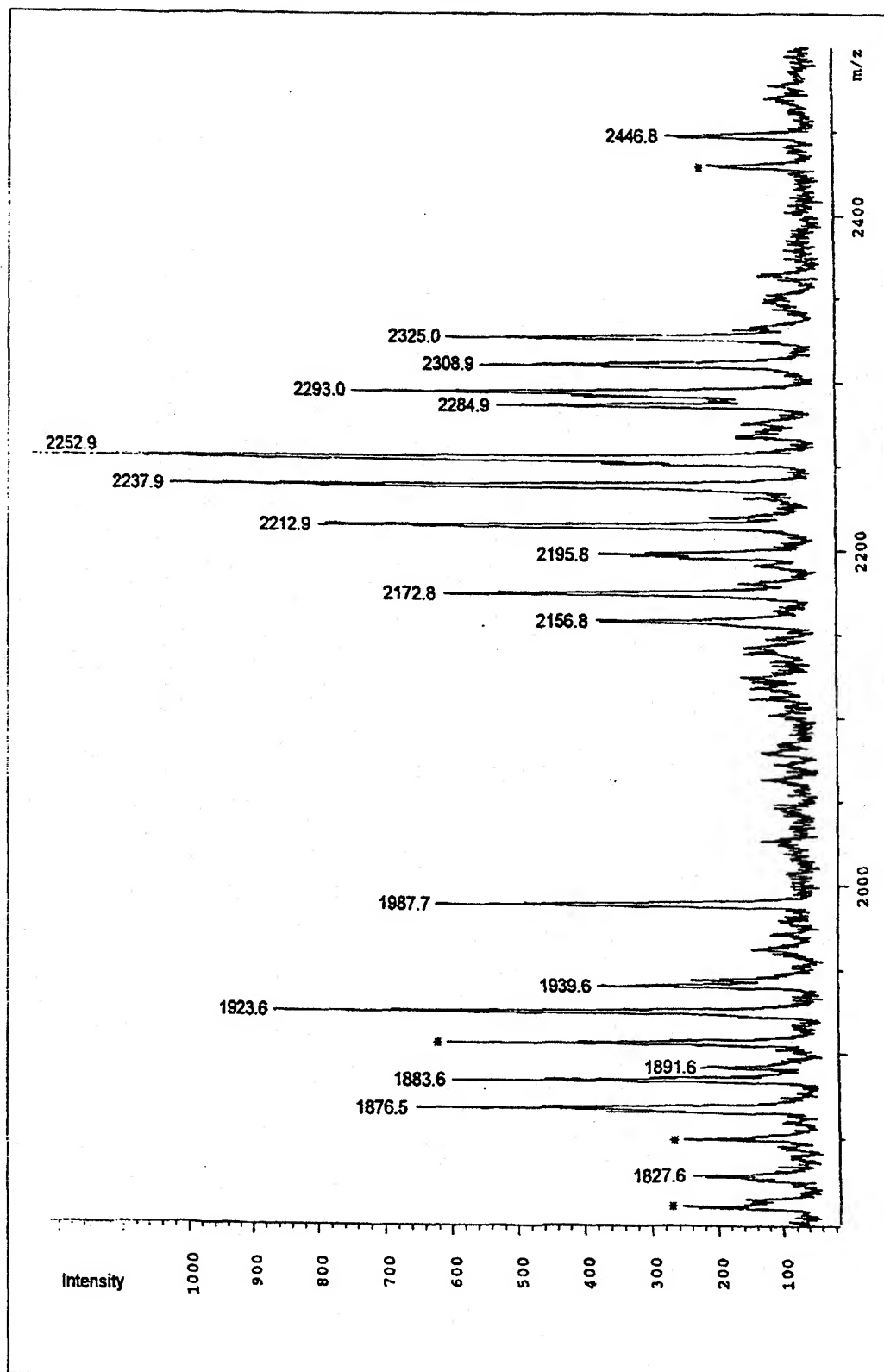


FIGURE 9B

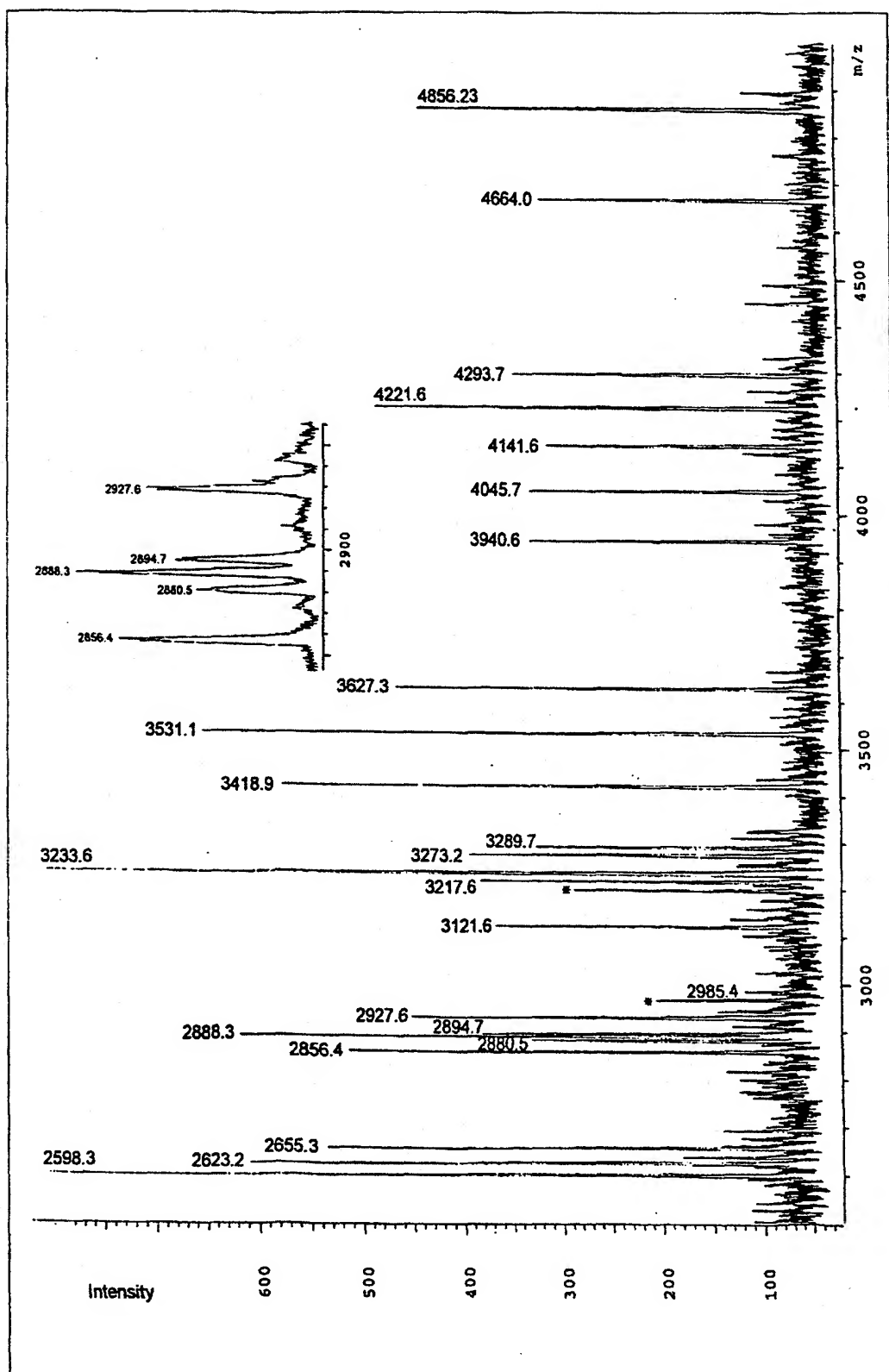


FIGURE 9C